
FOLIO

Board of Governors

The most recent meeting of the University's Governors took place on 2 December. The following items were among those discussed during the open portion of the meeting.

Educational Affairs

On the recommendation of the Educational Affairs Committee, the Board approved the establishment of a new degree program in the Faculty of Science. The program, an Honors BSc in Mathematical Physics, was developed as a result of a student request to the Science Faculty Council. The program affects a small number of students and requires no additional staff or courses.

The Educational Affairs Committee also reported on matters arising from the 75th Anniversary celebrations and on institutional recognition for the International Briefing Centre, sponsored by Student Services.

This Week's Quote

"You can talk until you are blue in the face to me about the content of cell biotechnology and I will never be better informed."

Source: R.G. Baldwin, Vice-President (Academic), at a GFC Executive meeting. He and J. Osborn, Department of Oral Biology, were conversing vigorously on criteria for new programs. □

Building Committee

The Board Building Committee requested and received approval for the naming of the rare book room in the Mackenzie Health Sciences Centre Library. Henceforth, the room will be called the "Phyllis Russell Rare Book Room" in honor of the Health Sciences Librarian due to retire this month after more than thirty years of service to the University.

It was further reported that a

Capital Expenditure Authorization Request had been approved for renovations to the SUB Cafeteria. The renovations require that the cafeteria will be closed for a little while. More information on this topic will appear in a future issue of *Folio*.

Financial Matters

A report on the preparation of the 1983-84 operating budget was presented by Vice-President

(Finance and Administration) L.C. Leitch on behalf of the Finance Committee. Following that presentation, the Finance Committee sought and received Board approval of proposed Operating Budget Principles and Policies for 1984-85. As ever, the objective will be a balanced budget. On another front, the Governors rejected a proposal to designate a travel agency for the University. □

Strategic Planning Group Established

The first of four groups designed to assist the University's renewed efforts at strategic planning has been named by President Horowitz, Vice-President Baldwin, Chief Operational Officer for the Planning Strategy, being absent from the 2 December meeting of the Board of Governors.

Planning Group 1: University Capabilities and Capacities will address a variety of topics that will have a far-reaching effect on the nature of our institution. Examples of such topics are the size of the University, its optimal enrolment and mix of programs, consideration of existing quotas, our rôle vis-à-vis the colleges, and the desirability of a common first year program for all students before they embark in studies specific to their interests.

There are twelve members of Planning Group 1. They are: R.S. Patterson, Dean of Education (Chairman) D.R. Badir, Dean of Home Economics

D.A. Cook, Chairman of Pharmacology
J.F. Forrest, Professor of English
P.L. Freeman, Chief Librarian
R. Greenhill, President of the Students' Union
W.J. McDonald, Dean of Science
L.P. Milligan, Professor of Animal Science
D.W. Murray, Chairman of Civil Engineering
W.D. Usher, Governor
P.A. Watts, Director of Administrative Systems
T.H. White, Dean of Arts

The resource person for the group is E.A. Holdaway, Director of Institutional Research and Planning; the liaison function will be fulfilled by R.D. Bercov, Associate Vice-President (Academic).

Over the next few months, other Planning Groups will also be set up. The next three will focus their attention on computer literacy, new programs, and

graduate studies and research, respectively. □

On the Avenue

Be prepared for the old switcheroo 23 December. Work on the north side of 87 Avenue east of 116 Street will move to the south side of the Avenue. The project—the West Loop Service Corridor Inter-connect—will continue until mid-March. The road between Lister Hall and the Jubilee Auditorium will remain closed for some time yet.

As noted earlier, two lanes of traffic will be maintained throughout construction.

The old entrance to the University Farm is closed. The new entrance is at 60 Avenue and 115 Street. Also, the Grounds Greenhouse opened recently and is in full operation. □

Nursing Grants Awarded

The first grant recipients from the Alberta Foundation for Nursing Research were announced last week by Foundation Chairman Shirley Stinson. Four of the seven research proposals to receive funding will be conducted in this University's Faculty of Nursing.

Arnette Anderson, Assistant Professor of Nursing, will work with Beverly Anderson, Associate Professor of Nursing, University of Calgary, on a project investigating mother-twin bonding in the first year of life. The Andersons, twins themselves, will examine interactions between mothers and each twin as compared with groups of mothers having single newborns. The project's second focus will be exploratory in nature. Through tape-recorded, semi-structured interviews, mothers will describe their personal experiences in raising twins.

Elizabeth Davies, Associate Professor of Nursing, will use her AFNR grant to explore the reaction of children to the death of a brother or sister. Focussing on the loss of a sibling to cancer, Dr. Davies will attempt to deter-

mine whether children develop more behavioral problems than the average child, and whether the individual child, the circumstances of the sibling's death, and the closeness of the family environment have any effect on behavioral problems that may occur. The research project will be based on the results of research Dr. Davies conducted in the United States which indicated that bereaved children do have significantly more behavioral problems than the average child.

A third research project to receive funding from the Foundation is that of Janice Morse, Associate Professor of Nursing. Her grant will enable her to establish a computerized bilingual bibliography of all current master's theses in nursing completed in Canadian universities. According to Dr. Morse, there is currently no available retrieval system for such information. The directory will be produced by the Canadian Clearinghouse of Ongoing Research in Nursing, established at the University in 1976 by Amy Zelmer, then Dean of Nursing and now Associate Vice-

President (Academic). Dr. Morse expects that the directory will be completed in spring 1984.

Barbara Stevens, a graduate student in the Faculty of Nursing, received an AFNR Student Research Allowance. The grant will enable her to look at patient education follow-up for heart attack victims and their families. Stevens, a cardiac nursing specialist, believes that follow-up calls from nurses will benefit patients and their families by increasing their knowledge of post-coronary care.

The Alberta Foundation for Nursing Research was established in 1982 with a provincial

government grant of \$1 million. The Foundation's priorities and goals are aimed at enhancing the quality and quantity of nursing research in Alberta for the purpose of improving nursing care.

According to Dr. Stinson, Associate Dean of Nursing, University of Alberta, response to the fund from Alberta nurses indicates that a real need is being met. "The range of proposals submitted shows that there is keen interest in nursing research, not only in universities but in hospitals and community health agencies, where nursing action is," she said. □

Don't Give at the Office

W.F.G. (Gordon) Perry, Director of Campus Security and Parking Services, puts giving at the office in a new light with the following caution:

"At this time of year, with the pressure of exams and the excitement of holiday time, some of us are apt to be careless with

wallets, purses, calculators, and coffee funds.

This is a special time of year when sneak thieves access lockers, offices, desks and cars—your loss is their gain.

That is one type of charity we don't need. *Don't give at the office.* □

FOLIO

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Computing Students No. 1

The University's Computer Programming Team is officially the best in the Association for Computing Machinery's (ACM) Mountain Region. Team members Brian Bray, Stuart Lomas, Don Reble and Dan Wilson won the title 12 November in a contest at the New Mexico Institute of Mining and Technology in Socorro, New Mexico.

A computer programming contest is a time-limited event in which the teams try to produce as many correct computer solutions to a given set of problems as possible. Points are awarded for the amount of time taken to

arrive at a solution, as well as the number of unsuccessful attempts submitted for judging. The University's team correctly solved four problems out of six posed in six hours; all four team members worked at a single computer terminal.

The Mountain Region is defined as the Mountain Time zone in the United States and Canada. There were a total of eleven teams competing, including those from the Universities of Arizona and New Mexico and various other colleges in New Mexico. Some schools sent two teams.

A first place trophy plaque

was presented the winners and it, in turn, will be presented to the Department of Computing Science. The real reward, however, comes in February when the team travels to Philadelphia for the ACM International Competition.

Funds for the New Mexico trip were provided by the Department of Computing Science; Myrias Research Corporation; Tony Marsland, Bill Armstrong, B. Bray and Associates; Nexus Computing Systems Corporation and the University of Alberta Computing Society. □

On-line Catalogue Winning Friends and Influencing People

Okay, a few glitches have to be eradicated but by and large there's no business like DOBISness. Specifically, the Library's DOBIS on-line computer catalogue, a catalogue with a relatively modest start—all acquisitions since October 1982—and great expectations—all materials back to 1974 will be added in the first stage, everything before 1974 will be added in the second stage. Sometime down the line, anyone with a terminal tied into Administrative Systems should be able to access the database from their office. It won't be Nirvana but we can come close, Jim Heilik, Head of Library Systems, told *Folio* matter-of-factly.

The on-line catalogue was set up as a pilot test to provide data necessary for the evaluation of the DOBIS (Dortmunder Bibliothekssystem) catalogue. The exercise got underway early in October with three public terminals having been installed in the Herbert T. Coutts (Education) Library, three in Rutherford, two in Cameron, and one in the Law Centre. (Other terminals in these centres are available to staff.)

Upwards of 100,000 records, comprising all updates to the UTLAS bibliographic base since October 1982 (reference personnel find they have to remind users of the date so we will too) were loaded into DOBIS and training programs for staff were undertaken.

The beauty of the system is that it is self-teaching, with instructions on how to use the catalogue having been incorporated on-line. If need be, the user can press the "help" key and a series of help screens will provide succor. A brochure explaining the catalogue has been placed beside each terminal for reference.

The main thing is to read the screen and follow instructions *literally*.

A public terminal can be searched under three access points: authors, editors, etc.; ti-

ties or significant words in titles; subjects. Unlike the microfiche, DOBIS displays full bibliographic information under any search term. While the test file contains no references, DOBIS does permit keyword searching for all complex names and all titles.

If one is familiar with the basic steps, commands can be linked to allow the simultaneous performance of several steps. Also, a search can be narrowed, broadened, or limited by using the COMBINE/LIMIT search.

Three evaluation questionnaires, based on the Council of Library Resources questionnaires, were designed to garner user, non-user, and staff responses. Most of these have been returned (the test will continue into January) and the catalogue has earned favorable reviews. The data are with the Office of Institutional Research and Planning and the Library will make a recommendation for implementation to central administration in the spring.

The on-line catalogue is destined to replace the existing card and COMCAT (microfilm/microfiche) catalogues. It satisfies the Library's desire for an integrated system, that is, one combining the automated circulation, acquisitions, and cataloguing systems now in use and scheduled to remain so for another year at least.

"The on-line catalogue is the wave of the future," said Chief Librarian Peter Freeman. "It's not a question of 'if' but 'when.' What you see now isn't what you will always see; the system doesn't lock us in. It's a matter of deciding which changes to make first," he said. The task of placing the remaining 1,300,000 records on line will then hove into view.

Rather than reducing numbers of staff, the 'wave' will necessitate the learning of different skills. The same staff will be able to do more, is how Mr. Freeman put it.

Glitches? Essentially downtime and hardware problems that are being sorted out. According to DOBIS On-Line Project Librarian Josie Tong, students have begun to use the on-line catalogue with "no obvious hesitation." In the 1 October issue of "Library Online" she reported

that "there are a few student 'experts' who simply won't use any other catalogue at all. A student even attempted to show one of our staff members how to do searching on-line the very first day the terminals were up in the Library." □

University of Alberta Library Hours Christmas Hours

Effective Thursday, 22 December 1983 to Tuesday, 2 January 1984.
Normal Library Hours will resume 3 January 1984.

All Libraries Closed

24 December (Saturday)
25 December (Sunday)
26 December (Monday)
27 December (Tuesday)
28 December (Wednesday)
31 December (Saturday)
1 January (Monday)
2 January (Tuesday)

Cameron and Rutherford Libraries

Building open	Monday - Friday	0830 - 1700
Circulation Services	Monday - Friday	0830 - 1645
Fines Collection	Monday - Friday	0830 - 1200
		1300 - 1630
Reference Service in all Divisions and Units including Interlibrary Loans and Reserve Room	Monday - Friday	0830 - 1630
Photoduplication	Monday - Friday	0830 - 1200
		1300 - 1630

Herbert T. Coutts (Education) Library

Building Open	Monday - Friday	0830 - 1700
Circulation Services	Monday - Friday	0830 - 1645
Curriculum Library	Monday - Friday	0830 - 1630

*John A. Weir Memorial (Law) Library

22 - 23 December	0745 - 1700
29 - 30 December	0830 - 1700

Other Libraries

Computing Science Reading Room	Monday - Friday	0900 - 1206
		1300 - 1700
*Mathematics Branch Library	Monday - Friday	0900 - 1200
		1300 - 1700
Physical Science Branch Library	Monday - Friday	0830 - 1200
		1300 - 1630
*John W. Scott Branch Library	Monday - Friday	0900 - 2200

*Detailed hours will be posted

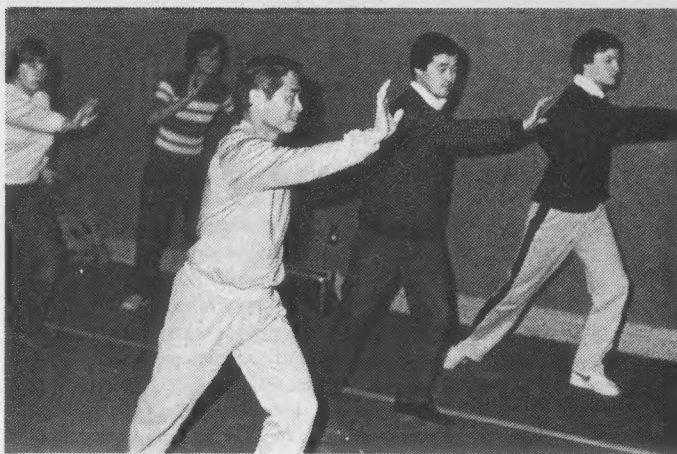
Faculty Advisory Board Spans the Gap

Among the many talents of the engineer is that of building bridges. Since the mid-1970s, the Faculty of Engineering has given special attention to bridges of a different sort, those accruing from communication with business and industry in Alberta. The result? The Faculty Advisory Board, a 33-member group of professional engineers and government employment representatives who meet regularly with Faculty of Engineering staff to discuss issues relating to course content, curricula, general performances, and employment needs and responsibilities.

The original purpose of the Board was focussed on employment opportunities for students and graduates in Engineering. In recent years, however, its mandate has broadened to include responsibility for: serving as an agent for the establishment of communication channels between the Faculty of Engineering and the industrial and government communities; providing comment from the business and industrial communities on existing and potential engineering programs; advising the Faculty of Engineering on the development of the Co-operative Education and Student

Work Experience Programs and publicizing the programs in the industrial and business communities; and advising on the creation of, encouraging contributions to, and administering disbursements from the Robert M. Hardy Engineering Enrichment Fund (established as a medium to attract non-governmental sources of funding that will be used to enhance the education of students in the Faculty of Engineering).

Chairman of FAB is Bill Lavender, President of Lavender Management Services. He stresses the importance of industry, government, and the University working together to ensure that students graduating from Engineering are well prepared to take on employment responsibilities. To that end, the twice-yearly meetings of the Board provide opportunity for discussion with Engineering students as well as faculty members. The most recent meeting of the Board, held 1 December, included a tour of the various Engineering departments. In addition, regards were expressed to three retiring Board members: W.L. Fraser, D. Mallet-Paret, and E.A. Mansfield. □



T'ai Chi: Meditation in Movement

T'ai Chi, an ancient oriental exercise system, has proven to be popular with both students and faculty who participate in the courses offered as part of the Staff Fitness and Lifestyle Program. T'ai Chi has the advantage of providing both a form of mild exercise and a meditative aspect which appeals to people who prefer a fitness routine that is quieting. These exercises are sequential. A T'ai Chi "set" is performed slowly. The participant exercises with gentle controlled moves and balances which are both intriguing and beautiful. The result is a feeling of having exercised without the accompanying feeling of exhaus-

tion.

Out of a myriad of ancient T'ai Chi systems, the Government of China has selected 24 basic forms which have been selected for their therapeutic value. These are taught in the Staff Fitness and Lifestyle Program by Gordon Chan, who attended University in the People's Republic of China. Mr. Chan is now at our University (Department of Botany). His patient and thorough teaching manner has helped his many students learn the basics of this gentle exercise form. T'ai Chi will again be offered as part of the Winter Fitness Program on 16 January. □

To Each His Own

Campus Security's Lost and Found Department frequently receives items such as calculators and radios that have been found on campus but that lack identification. Similarly, reports of stolen or lost items are received but here again no positive identification is available. Members of the campus community are reminded that Campus Security offers a free engraving program for the purpose of placing the owner's identification on items and hastening their recovery

should they be stolen or lost. Use of the program is encouraged.

Alternatively, it is recommended that the serial numbers of items such as calculators, radios, etc. be noted and retained separately by the owner in the event the item is stolen or lost, here again for the purpose of returning the object to the owner should it later be recovered.* □

The above information was forwarded by W.F.G. Perry, Director of Campus Security and Parking Services.

Ernest C. Manning Award

The Ernest C. Manning Foundation, a privately-funded, non-profit national organization which recognizes and encourages Canadian innovators, is seeking nominations for its annual award of \$75,000.

Innovations may be in (but not restricted to) such fields as biological sciences (life), the physical sciences, economics, government and public policy, law, business, and the arts.

Phil Gold of Montreal was the first recipient of the award (1982) for his discovery of carcinoembryonic antigen (CEA) and its subsequent innovative application as a breakthrough in

the detection and management of cancer.

The second award was presented to Kenneth J. Kasha, University of Guelph, for the development of food crop yields to help feed a hungry world.

For consideration for the 1984 award, applications and supporting material must be submitted by 29 February to: Mr. George E. Dunlap, Executive Director, 2300, 639 Fifth Avenue S.W., Calgary, Alberta T2P 0M9. (403) 266-7571. Material received after this date will be held for consideration in the 1985 award competition. □

Education a Fundamental Right in CAUT's Eyes

All Canadians have a fundamental right to a university education if they are qualified, says the Canadian Association of University Teachers (CAUT), but government underfunding is restricting admission to fewer and fewer lucky ones each year.

In its brief to the Macdonald Commission on the economy, the 26,000-member, Ottawa-based Association points out that most Canadians recognize the need to be better educated in the coming decades but some politicians are trying to restrict access to university and this will retard the country's growth potential.

There should be no economic, social, or cultural barriers to enrolment, and special programs to encourage more women, native

people, and the economically disadvantaged should be established. Merit should be the only criterion, according to CAUT.

The Association calls the current level of funding for universities inadequate, and wants an end to federal and provincial bickering over the current funding crisis which has led to depleted libraries, out-of-date scientific equipment, and a loss of morale in the education system. It plans a second brief on this matter.

The brief also calls for wider recognition of the importance of university-based research, particularly basic research; more money for graduate and post-graduate training programs; research ventures with business

and labor; and tax incentives to encourage research in universities. In addition, it outlines serious university staffing problems in the 1990s when large numbers of professors are expected to retire and student enrolments are projected to increase substantially; government threats to academic freedom and university autonomy; and bilingualism in universities. □

people

The following members of the Department of Sociology participated in the annual meetings of the American Society of Criminology in Denver, Colorado, 9 to 13 November: *Michael Gillespie* presented a paper entitled "Causes and Consequences of Membership in the Subculture of Violence: Findings from the NORC General Social Survey." *Jim Hackler* presented a paper entitled "Unsung Roles in Cross-cultural Research in Juvenile Justice." *Leslie Kennedy* was co-chairman of the session "The Theory and Practice of Chinese Justice: Reflections from a Recent First-hand Look." He and *Robert Silverman* gave a paper entitled "Loneliness, Satisfaction and the Fear of Crime." *Trudie F. Smith-Gadacz* delivered a paper entitled "Juveniles' Understanding of Legal Language: Two Perspectives."

Raymond J.S. Grant (English) delivered a paper entitled

"Satan, I fear thy sooty claws: A Study of Robert Burns and the Deil," at the meeting of the Samuel Johnson Society of the North West held at the University of Washington, Seattle, 29 October.

At the meeting of the Synod of Alberta, Presbyterian Church in Canada, 18 to 20 October, Dr. Grant was appointed Convenor of the History Committee of the Presbytery of Edmonton, Convenor of the History Committee of the Synod of Alberta, and Archivist for the Synod of Alberta, dealing with relations between the Synod of Alberta, the Alberta Provincial Archives, and the National Presbyterian Archives in Toronto. He was also nominated to the Committee on History for the General Assembly of the Presbyterian Church in Canada.

On 28 November, *Gordon Peacock* (Drama) presented a paper to the School of Drama, University of Texas at Austin, under the title "Directing Classical Theatre Today."

Peter Savaryn (Chancellor) was recently elected President of the World Congress of Free Ukrainians in Toronto.

service information

All information to be included in this column must reach the Office of Community Relations by 9 a.m. the Thursday prior to publication.

Coming Events

Lectures and Seminars

Faculty of Medicine

16 December, 8 a.m. A. Khaliq, "The Other Side of the COIN." 2-115 Clinical Sciences Building.

16 December, noon. M. Castro, "In Vivo Nuclear Resonance Studies of Tumour Diagnosis and Pathophysiology." SMRI Conference Room.

19 December, 8 a.m. K. Bowes, "Clinical Pathologic Conference." 2-116 Clinical Sciences Building.

19 December, 4 p.m. P. Venner, "Morbidity of Curative Cancer Chemotherapy." Auditorium, Cross Cancer Institute.

20 December, 9 a.m. Paul Grundy, "Pediatric Conference—Death of an Infant at Eleven Days of Age Following Pneumonia." 2-115 Clinical Sciences Building.

20 December, noon. T.A. McPherson, "Adjuvant Chemo-immuno and Immunotherapy in B2 and C Colorectal Cancer: A Single Centre Population Based Study." 21 December, 8 a.m. J. Warnica, "Coronary Re-Perfusion (a Review)." 6-101 Clinical Sciences Building.

Department of Computing Science

19 December, 10 a.m. Tiko Kameda, Laboratory for Computer and Communications Research, Simon Fraser University, "Cautious Transaction Scheduling." 617 General Services Building.

Exhibitions

Ring House Gallery

Until 18 December. "Johann Feught M.V.A." A exhibition of recent work in printmaking, presented as partial fulfillment of the Master of Visual Arts program.

Until 18 December. "A University Collects: Kenyan Crafts." A collection of Kenyan artifacts, late of the 1983 Universiade "Crafts of the World" exhibition. (The artifacts have been donated to the University.)

Radio and Television

Radio

Programs broadcast on CKUA radio 580 AM and 94.9 FM.

17 December, 7 p.m. University Concert Hall—University of Alberta Symphonic Wind Ensemble. Guest: Fordyce Pier.

21 December, 7 p.m. Celebrations—Interview and reading with Robin Mathews.

24 December, 7 p.m. University Concert Hall—Annual Choral Christmas Concert. Guests: The University of Alberta Concert Choir and the Madrigal Singers.

Television

Programs broadcast on ETV Q-9 and C-13.

21 December, 8 p.m. Faculty Profiles: Food Science—"Science, Food and Opportunity."

The study of agriculture and the natural, physical and social sciences constitutes a multi-discipline and research oriented Faculty. Some of the many objects of study within these areas are: Food Chemistry, Food Microbiology, Food Engineering and Food Processing.

Matters of Faith

Chaplains' Association

15 December, 3 to 5 p.m. Faculty are invited to a Faculty Sherry Hour. RSVP to Lynne Makarenko, St. Joseph's College, 433-2275. Faculty Lounge, St. Joseph's College.

16 December, noon. The annual Festival of Nine Lessons and Carols celebrating Advent and Christmas for students, faculty and staff. Organist Jeremy Spurgeon and the U of A Mixed Chorus directed by Ron Stevens. Convocation Hall.

Mondays, 7:30 p.m. Evening Prayer in preparation for the Pilgrimage of Reconciliation and Hope by the Taizé Community. St. Joseph's College Chapel.

Catholic Campus Ministry

St. Joseph's College
Sunday Mass: Saturday, 4:30 p.m., Sunday, 9:30 and 11 a.m. and 4 and 8 p.m.

Weekday Mass: Monday, Wednesday, Friday, and Saturday at 12:10 and 4:30 p.m. and Tuesday and Thursday at 12:30 and 4:30 p.m. Also Monday to Friday at 7:30 a.m.

Lutheran Campus Ministry

Sundays, 10:30 a.m. Worship with Holy Communion in the Newman Centre of St. Joseph's College. The University community is welcome to attend.

7:30 p.m. Thursday evening worship at the

Lutheran Student Centre, 11122-86 Avenue.
Wednesdays at noon. Bible Study, 158A
Students' Union Building.

SUB Theatre

Concerts

15 to 17 December. The Edmonton Opera Association, CHQT, and SUB Theatre present Gilbert and Sullivan's *The Gondoliers*.

Non-Credit Courses

Computing Services

MTS (Michigan Terminal System)

MTS and Editor Fundamentals (Prerequisite)
AJ510 Operation and Visual Editing
MTS Overview (Prerequisite)

Textform

Introduction to Text Formatting (Prerequisite)
Advanced Text Formatting

SPIRES

Introduction to SPIRES (Prerequisite)
Advanced SPIRES

Graphics

Introduction to Plotting
Integrated Graphics Overview

Statistics

Data Preparation for Statistical Packages (Prerequisite)
SPSSx Conversion
Introduction to BMDP
Introduction to MIDAS
Introduction to MINITAB
Introduction to TROLL

Microcomputers

Introduction to the IBM PC
The above courses are offered regularly through the day with limited evening selections. Registration will be taken over the phone for all courses except evening courses. These may be made in person at 352 General Services Building, or by mail. Payment must accompany registration for all evening courses. Please make cheques payable to The University of Alberta.

Waiting List Courses

The following courses are only offered when a sufficient number of people express an interest.

Courier Operation and Visual Editing
Introduction to Programming
Introduction to Typesetting
Introduction to APL
Introduction to the Array Processor
Introduction to APAL
Introduction to Clustan
Introduction to TSP
Introduction to Osiris
For more information on any of the courses listed above, please phone the Training As-

sistant at 432-2511, between 8:30 and noon, weekdays.

Faculty of Extension

Real Estate Education

For further information on the courses listed below, telephone 432-5060.
Advanced Real Estate Law
Appraisal of Real Property
Contract Law for Real Estate Personnel
Property Management
Real Estate and Mortgage Finance

Business and Professional Division

For further information on the courses listed below, telephone 432-5066 or 432-5067.
Supervisory Development Programme
Management of Personal Finances: An Investment Strategies Approach
Managing Investments
Speculating in Commodity Futures
Effective Selling Skills

Fitness and Lifestyle Courses

The Faculty of Extension Winter '84 Fitness Brochure is now available. Please call 432-2015 to be placed on the mailing list.

Notices

Review of the Code of Student Behaviour

There will be a meeting of the Campus Law Review Committee 12 January, 11 a.m., in 3-15 University Hall. A presentation will be made by J.C. Robb, Faculty of Law, in support of an "in-house" policy for the Code of Student Behaviour and by T. Christian, Faculty of Law, who will speak to a less protective philosophy for the Code of Student Behaviour.

Anyone wishing to make a personal or written submission to the Campus Law Review Committee should give notice of such intent to Mrs. P.M. Plaskitt, 2-5 University Hall, 432-4715.

Holiday Hours, MTS and PLATO

As usual at this time of year, MTS and PLATO availability will be reduced as follows: regular hours and service up to noon, 24 December; unattended service from noon, 24 December, to 8 a.m., 28 December; regular hours and service from 8 a.m., 28 December, to noon, 31 December; unattended service from noon, 31 December, to 8 a.m., 3 January. Regular hours and service from 8 a.m., 3 January

"Unattended service" means terminal access only. Magnetic tape, paper tape, and floppy disk services will not be provided. Jobs may be submitted to *BATCH*. Print jobs will be queued and possibly printed, but users will not be able to pick up output during these times as the staff will be of the skeleton variety.

General Services Building will be open regular hours during this period. However, all terminal rooms will be locked during unattended service hours.

Scholarships, Fellowships and Awards

Bradfield Graduate Fellowship Program 1984-85

Donor: The John R. Bradfield Education Fund. Where tenable: Canada. Level: Graduate. Field: Natural and applied sciences, mathematics, economics, business and commerce. Value: \$15,500: \$15,000 to student and \$500 to University. Number: Up to four. Duration: One year, but are renewable for a further year upon receipt of evidence of satisfactory progress. Conditions: Canadian citizens or landed immigrants in Canada; must be registered as full-time student in a graduate program leading toward a Master's or Doctoral degree during the tenure of the award; may hold other awards up to a total value of \$5,000 per year. The research undertaken should be of interest not only to the university but to one or more companies in, or associated with, the Noranda Group. Closing date: 1 February 1984. Further information and application forms should be requested from: Student Awards Office, 252 Athabasca Hall, The University of Alberta.

Studentships in Northern Studies

Donor: Canadian Northern Studies Trust. Where tenable: Canadian universities. Level: Students enrolled in degree courses, or a course of studies recognized by a university. The award may best be used by students who pursue one or two year programs, for example, undergraduate specialization, Master's degrees, or diplomas. Field: The program of studies for the award holder is to be directly and demonstrably concerned with northern studies. Value: \$10,000. Number: 4 to 6. Duration: Studentships are to cover a 12-month period of study. Conditions: Open to Canadian citizens or permanent residents who will (a) engage in research culminating in a thesis or other such document, (b) include direct northern experience as part of their studies, and (c) whose programs are relevant to northern themes, problems or issues. Closing date: 15 February 1984. Further information and application forms should be requested from: Association of Canadian Universities for Northern Studies, 130 Albert Street, Ottawa, Ontario K1P 5G4.

Surplus Equipment

The equipment appearing in this column is available only to University Departments with University Administered Funds. For further information about the purchase of equipment or the disposal of any of your department's surplus equipment, contact Bonnie O'Dwyer or Roy Bennett, telephone 432-3208.

Wanted: Refrigerator.
For further information, please contact Len Mace, Dentistry, at 432-4460 or 432-4246.

Positions Vacant

The University of Alberta is an equal opportunity employer but, in accordance with Canadian Immigration requirements, these advertisements are directed to Canadian citizens and permanent residents.

Health Sciences Reference Librarian

The University of Alberta Library is accepting applications for a Health Sciences Reference Librarian position. This is a temporary position, ending 30 April 1984.

Reporting to the Health Sciences Librarian, the incumbent will work on the information desk, provide library instruction, prepare bibliographies as well as other projects.

The successful candidate will have a degree from an accredited Library School as well as a background in the Life Sciences. Previous library experience would be desirable.

The position is classified at the Librarian I level, with a monthly salary of \$2,009.67. Applicants should send curriculum vitae and the names of three references to: Mr. Peter Freeman, Chief Librarian, The University of Alberta, Edmonton, Alberta T6G 2J8.

Non-Academic Positions

A hiring freeze was put in place 18 November 1983. This affects all non-academic vacancies previously advertised with the exception of the positions funded from Trust/Research accounts.

To obtain further information on the following positions, please contact Personnel Services and Staff Relations, 2-40 Assiniboia Hall, telephone 432-5201. As positions are filled on an on-going basis, these vacancies cannot be guaranteed beyond 8 December 1983. For a more up-to-date listing, please consult the weekly Employment Opportunities Bulletin and/or the postings in PSSR.

Medical Stenographer (Part-Time, Term, Trust) (\$721-\$883) Pediatrics
Technician I (Trust) (\$1,497-\$1,842) Pharmacology
Technician I/Technologist I (Trust) (\$1,497-\$2,092) Physiology
Technician I (Trust) (\$1,497-\$1,842) Medicine
Technologist I (Trust) (\$1,920-\$2,378) Genetics
Biology Technologist II (Trust) (\$1,920-\$2,378) Genetics

Advertisements

Advertisements must reach the Editor by 3 p.m. on the Thursday prior to publication date which date also serves as the deadline for cancellation of advertisements. The cost of placing advertisements is 30 cents per word with no discount for subsequent insertions. There are no refunds. There is a maximum limit of thirty words and a min-

imum charge of \$1.50. Contributors' corrections will be assessed at \$1.50 for each line in which an insertion is made. Advertisements cannot be accepted over the telephone.

Accommodations available

For rent - Executive home. Old Glenora. 1 1/2-storey, 2,600 sq. ft., immaculately re-finished, four bedrooms, 3 1/2 bathrooms, study, fireplace, sundeck, custom kitchen, ravine location. \$1,500/month. Western Relocation, 438-1044, 435-5389.

Rent - Male wishes to share a two-bedroom house with a male, professional/graduate student. Twenty blocks from campus. 432-5832, 436-8885.

House to share near University - 20-30 and non-smoker preferred. \$250. 439-5291.

Rent - Furnished, basement suite, near Southgate. Quiet, non-smoker. 434-8801, 6-7 p.m.

For rent - Basement suite. \$325. Damage deposit, \$150. Available 1 January. 437-4911.

Rental - One-bedroom, near University, very reasonable. Available January, four months or longer. 432-4104, 488-6240.

Rent - Three-bedroom townhouse, Blue Quill. 433-9911.

Rent - Three-bedroom home, furnished, on three acres, three miles north of Stony Plain. \$450/month. Available 1 February 1984. Phone 432-2133.

Must be sold - Clarendon home, 1,976 sq. ft. Excellent condition. Family room, fireplace, south yard. Immediate possession. \$124,500. Joyce Byrne, Spencer's. 435-6064, 436-5250.

Sale - Shady address, Saskatchewan Drive. Hidden by trees, this rustic old home sits on three lots. Property has other potential. Call Chris Tenove, 433-5664. Spencer's.

Sale - North Glenora. Quick University access. Three-bedroom bungalow. Large, pie-shaped lot. Quiet crescent. Assume 10 3/4% mortgage. Ken Perry, 436-5250. Spencer's.

Sale - University. \$85,000, six blocks south. Cozy, three-bedroom home. Well maintained. Landscaped, large lot. Quiet, desirable location. Call Chris Tenove, 433-5664, 436-5250. Spencer's.

Rent - Shared accommodation - Female, share house, Lendrum, \$250/month. Utilities, parking included. Grad student pre-

ferred. Phone 435-6731, 434-9661.

Sale - Asking \$86,900 for 3-bdrm Bungalow. Fully developed basement. South of University. Hardwood floors, patio doors, Marv or Sandi Sather, 435-2168 res., 437-2110 bus. Canada Trust Realtor.

Accommodations wanted

Needed - Furnished house from 1 February to 19 May. Responsible, tidy family of four have sold Edmonton home and are transferring to Toronto in May. Phone Victoria at 483-1921.

Goods for sale

Farmer's Market: Every Saturday, 10 a.m.-2 p.m. in HUB Mall, fresh flowers, vegetables, eggs, honey, jams, pickles, baked goods.

Books bought and sold - The Edmonton Book Store in HUB Mall will pay cash for book collections and individual, rare items. Appraisals available. Open seven days a week. 433-1781.

Sale - Teak desk - three small drawers, dropleaf. Excellent condition. Call 482-2131 after 6 p.m.

35mm slide projector, \$100. Screen, \$25. Queen-sized bed, \$50. 54" colonial headboard, \$25. Pub-style chesterfield, chair, ottoman, \$250. X-country skis (210), poles, boots (10 1/2), \$25. 432-1630, 6 p.m.-9 p.m.

Services

Donnic Word Processing. Specializing in theses, manuscripts, etc. 8315A-105 St. 432-1419.

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Professional typist - Word processing. Specializing in theses and dissertations. Gwen, 467-9064.

Typing, IBM Selectric. Fifteen years' experience. \$1/page. Terry, 477-7453.

Typing, \$1.50 per page. 435-3091.

Backaches? Stress? Tension? Relief promised at Back Basics. Physiotherapist Maria Krieg uses heat, massages, chiropractic and interferential electrotherapy for special treatments. (Gift certificates.) 11627-75 Ave. 436-8059.

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the basics of programming microprocessors in assembler

Jan 10 - Feb 2, Tuesdays and Thursdays
6:30 - 10:00 P.M.

MICROPROCESSOR INTERFACING
a "hands on" approach to interfacing

Feb 7 - Mar 1, Tuesdays and Thursdays
6:30 - 10:00 P.M.

MICROPROCESSOR PROJECT
hardware & software design - build & keep a microprocessor project

Mar 6 - 29, Tuesdays and Thursdays
6:00 - 9:30 P.M.

SOFTWARE ENGINEERING
how to deliver reliable software that meets specifications on time

Feb 20 - Mar 14, Mondays and Wednesdays
7:00 - 10:00 P.M.

for information and brochures, contact

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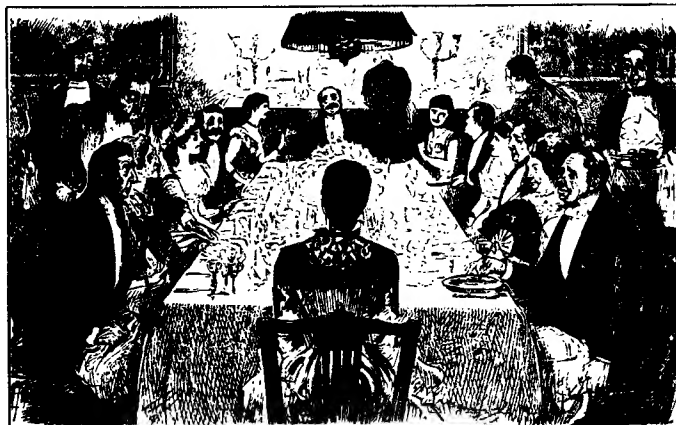
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Recurrent cold sores? Participants wanted for confidential, controlled study of prom-

ising, antiviral medication (approved for other antiviral applications) by University of Alberta research team. 432-2691, 432-5758, 432-2240.

Children's yoga, age 7-12, Windsor Park area. January. Call 439-1266.



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